03050208-020

(Great Swamp)

General Description

Watershed 03050208-020 is located in Colleton County and consists primarily of ***Great Swamp*** and its tributaries. The watershed occupies 90,906 acres of the Lower Coastal Plain region of South Carolina. The predominant soil types consist of an association of the Rains-Lynchburg-Goldsboro-Echaw-Blanton series. The erodibility of the soil (K) averages 0.15, and the slope of the terrain averages 1%, with a range of 0-6%. Land use/land cover in the watershed includes: 52.3% forested land, 23.5% forested wetland, 14.7% agricultural land, 5.8% barren land, 2.8% urban land, 0.6% nonforested wetland, and 0.3% water.

Jones Swamp Creek (Big Bay) joins with Doctors Creek (Perry Creek) near the City of Walterboro to form Great Swamp. Great Swamp accepts drainage from Ireland Creek (Allen Creek) and Bluehouse Swamp (Remick Swamp) before draining into the Ashepoo River. Bluehouse Swamp also drains into the Combahee River basin. There are a total of 169.8 stream miles and 107.0 acres of lake waters in this watershed, all classified FW.

Surface Water Quality

Station #	Type	Class	Description
CSTL-044	S/BIO	FW	IRELAND CREEK AT S-15-116, 5.5MI N OF WALTERBORO
CSTL-584	BIO	FW	BLUEHOUSE SWAMP AT S-15-41

Ireland Creek (CSTL-044)) – Aquatic life uses are fully supported based on macroinvertebrate community data. This is a blackwater system, characterized by naturally low pH and dissolved oxygen concentrations. Although dissolved oxygen and pH excursions occurred, they were typical of values seen in blackwater systems and are considered natural, not standards violations. A significant decreasing trend in five-day biochemical oxygen demand suggests improving conditions for this parameter. Recreational uses are not supported due to fecal coliform bacteria excursions.

Bluehouse Swamp (CSTL-584) – Aquatic life uses are not supported based on macroinvertebrate community data.

NPDES Program

Active NPDES Facilities

RECEIVING STREAM / ***FACILITY NAME*** / ***PERMITTED FLOW @ PIPE (MGD)***	***NPDES#*** / ***TYPE*** / ***COMMENT***
IRELAND CREEK	SCG250037
ASTEN DRYER FABRICS INC.	MINOR INDUSTRIAL
PIPE #: 001 FLOW: M/R	
IRELAND CREEK	SC0002135
CCX FIBERGLASS PRODUCTS DIV.	MAJOR INDUSTRIAL

PIPE #: 001 FLOW: 0.037
PIPE #: 002 FLOW: 0.0171

IRELAND CREEK — SC0040436
CITY OF WALTERBORO WWTP — MAJOR DOMESTIC
PIPE #: 001 FLOW: 2.64

Groundwater Quality

Well #	Class	Aquifer	Location
AMB-031	GB	MIDDENDORF	WALTERBORO (50)
AMB-094	GB	TERTIARY LIMESTONE	WALTERBORO (29)

All water samples collected from ambient monitoring wells ***AMB-031*** and ***AMB-094*** met standards for Class GB groundwater.

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

LANDFILL NAME *FACILITY TYPE*	*PERMIT #* *STATUS*
COLLETON COUNTY LANDFILL DOMESTIC	DWP-111, DWP-121, DWP-076 INACTIVE
COLLETON COUNTY LANDFILL #2 DOMESTIC	--------- INACTIVE
COLLETON COUNTY LANDFILL (OLD) DOMESTIC	DWP-039 INACTIVE
COLLETON COUNTY LANDFILL DOMESTIC	151001-1101 INACTIVE
COLLETON COUNTY TRANSFER STATION TRANSFER STATION	151001-6002, 151001-6001 INACTIVE
CMEG INC. DOMESTIC	152609-2001 ACTIVE
EAGLE DISPOSAL CO. DOMESTIC	152630-2001 ACTIVE

Mining Activities

MINING COMPANY *MINE NAME*	*PERMIT #* *MINERAL*
REA CONSTRUCTION COMPANY MINE #9	0602-29 SAND
NETTLES SAND COMPANY, INC. PINKNEY MINE	0968-29 SAND

JETER CONSTRUCTION CO., INC. JETER SAND PIT #3	1035-29 SAND
NETTLES SAND COMPANY, INC. NETTLES PIT #2	1071-29 SAND
BRUCE W. GILLISPIE GILLISPIE	1260-29 SAND/CLAY
REA CONSTRUCTION COMPANY SAUNDERS SAND PIT	1268-29 SAND/CLAY
THREE RIVER CONSTRUCTION CO. RATTLESNAKE PIT	1177-29 SAND/CLAY
PALMETTO CONSTRUCTION HUGHES MINE	1232-29 SANDCLAY
WOOD BROTHERS CONSTRUCTION WALKER PIT	1193-29 SAND/CLAY

Growth Potential

There is a low to moderate potential for growth in this watershed, which contains a large portion of the City of Walterboro. Existing rail lines, the new Aldrin Business and Technology Park outside of Walterboro, and the city's proximity to I-95 make industrial growth a possibility in this watershed.